INTERNATIONAL BEZ GROUP

Power transformers, Distribution transformers, Special transformers, Auto-transformers, Repairs and revisions, Rotary machines, Locomotive transformers, Furnace transformers, Tests, Oil regeneration, 24-hour service
Since 1902

BEZ TRANSFORMÁTORY

With over 100 years of worldwide experience, BEZ TRANSFORMÁTORY, based in Bratislava, the Slovak Republic, ambitiously works to design, manufacture and maintain the highest quality and flawless functionality of its distribution and power transformers.

www.bez.sk
PRODUCT RANGE

OIL-FILLED TRANSFORMERS

Hermetically sealed
• Three-phase oil transformers
  with a power range of 25kVA to 12500 kVA
  and maximal voltage up to 36kV

Conservator type
• Three-phase oil transformers
  with a power range of 25kVA to 12500kVA
  and nominal voltage up to 36kV
  (ONAF up to 16000kVA)

DRY-TYPE TRANSFORMERS

Cast-resin transformers
• Three-phase epoxy transformers
  with a power range of 50kVA to 6300kVA
  and nominal voltage up to 36kV
• Safe and environmentally friendly

SPECIAL TRANSFORMERS

Traction static (converter) transformers
• Three phase transformers for rectifier and converter supply

Single-phase transformers
• Transformers up to 6.3 MVA

Excitation transformers
• Transformers for generators excitation

Grounding transformers
• Usually ZN or ZNy (d)

Transformer for use in wind power units
• Transformers with high temperature insulation system

Transformers for nuclear power plants
• Transformers certified for nuclear power plants

Highly specialized tailor-made solutions
• Unique transformers for highly specialized purpose

Amorphous-metal transformers
• Transformers with very low no load losses

Chokes
• Chokes for common purpose

The transformers can be equipped with specific accessories
in addition to standard ones.
ETD TRANSFORMÁTORY

ETD TRANSFORMÁTORY designs, manufactures, tests and installs its transformers worldwide. Superior quality and long product lifetime is achieved by combining tradition, modern design and manufacturing principles in the proud engineering legacy of the Skoda company in Czech Republic.

www.etd-bez.cz
PRODUCT RANGE

POWER TRANSFORMERS
- Three-phase oil transformers with a power range of 10 to 450 MVA and nominal voltage up to 420 kV
- Single-phase oil transformers with a total output of the three-phase set up to 1200 MVA and voltage up to 420 kV
- Special transformers as required by the customer (e.g., noise level, impedance voltage, outlet configuration, cooling, monitoring devices, etc.)
- Atypical transformers with the ability to adapt to the dimensional restrictions of the installation site

AUTO-TRANSFORMERS
- Three-phase oil transformers with an output up to 450 MVA and voltage up to 420 kV

LOCOMOTIVE TRANSFORMERS

TRACTION CHOKES
- Chokes for rail vehicle loads (railway, underground or tram cars) and trolley-buses, and other special use inductors

FURNACE TRANSFORMERS
- Transformers with output up to 80 MVA for powering of electric furnaces

REACTORS
- Start-up reactors
- Shunt reactors for compensation of reactive power
- Saturable reactors with fluent power regulation

REPAIRS AND MAINTENANCE
- Assembly, maintenance, 24-hour service
- Reconstruction and repairs of various producers’ transformers

TESTS
- Measurement of physical properties of electrical engineering materials
- Electrical and ventilation test and measurement at industrial facilities
- A wide range of accredited tests
ESB ELEKTRICKÉ STROJE

ESB Electricke stroje is the largest repair firm in the Czech Republic in the field of repairs to motors, generators and transformers with a tradition stretching back to 1952. The experience and skill of its employees enables it to perform machine repairs ranging from simple inspections to general overhauls of entire machines.

www.esb-bez.cz
PRODUCTS AND SERVICES

TRANSFORMER REPAIRS AND REVISIONS

- Wide range of transformer types, such as high-voltage and very-high-voltage transformers up to 70 MVA, furnace transformers, rail transformers and inductors

Services within the ESB workshop

- The inspection, repair and replacement of the switching devices of control transformers of various types from a range of manufacturers
- Oil diagnostics and treatment (oil regeneration or filtration)
- The repairs and upgrades of cooling systems and ventilators

Services at the customer’s location

- Repair and inspection of transformers with no limitation on voltage or power
- Repair of measuring transformers
- Filtration and regeneration of transformer oils
- Drying of transformers
- Assembly of various electric machinery

ROTARY MACHINES REPAIRS AND REVISIONS

- Synchronous alternators up to an power of 60 MW, air-cooled
- Asynchronous motors with wound armature and short-circuit armature, from 50 kW and upwards
- Synchronous motors of all outputs and voltages
- Exciters of all types
- Motor-alternators
- Measurement of the mechanical characteristics and electrical parameters of pieces of machinery and equipment, assessment of their condition and operability
- Filtration and drying of turbine oils on the client’s premises using specialized mobile equipment

ASSOCIATED SERVICES

- Diagnostics and tests of electric machines in a certified testing facility
- Routine tests according to CSN, EN standards or the requirements of the client
- Magnetism tests, measurement of temperature rise, vibration measurements
- High-frequency short circuits test on coils
- Complete re-winding and production of coils
- Vacuum impregnation
- Vacuum drying
- Tightness pressure tests
- Locksmith work
- Water jet cutting
GLOBAL PRESENCE

Our solutions are used in more than 50 countries around the globe